

ANNUAL COMPLIANCE REPORT OF MISSOURI PUBLIC WATER SYSTEMS



MO American Platte County Treatment Plant



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

2017

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Introduction

In Missouri, the Public Drinking Water Branch of the Missouri Department of Natural Resources has the responsibility of implementing the Safe Drinking Water Act and ensuring that the state's 2,731 public water systems provide safe drinking water. To do this, the Department sets limits and monitors for 91 different chemical and microbiological contaminants that could be found in public water supplies. This report provides information on how well Missouri's public water systems are doing in regard to meeting these standards.

This report is the 22nd Annual Compliance Report produced by the Department. It contains compliance statistics for Missouri's public water systems for calendar year 2017. The report shows that 96.9 percent of Missouri's population is served by a community public water system that met all health based standards in 2017.

The Department prepares this report not only to comply with statutory obligations mandated by the federal Safe Drinking Water Act, but also to provide an understanding of the importance of safe and abundant drinking water to the public. This report will be provided to the U.S. Environmental Protection Agency for inclusion in a national report that summarizes the performance of the nation's public drinking water systems.

What is a Public Water System?

A public water system is defined as a system that provides water through piping or other constructed conveyances for human consumption to at least 15 service connections, or serves an average of at least 25 people for at least 60 days each year. These are the systems that are the focus of this report.

There are three types of public water systems:

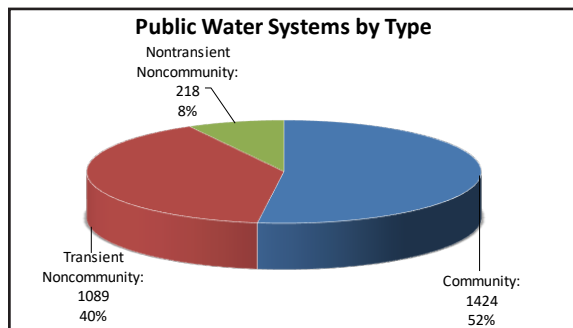
1. Community systems include towns, water districts, subdivisions, mobile home parks and residential facilities such as nursing homes or prisons.
2. Nontransient noncommunity systems regularly serve the same 25 people at least six months per year; schools and factories are good examples.
3. Transient noncommunity systems serve at least 25 people per day, at least 60 days of the year. Examples of transient noncommunity systems would be restaurants, resorts and campgrounds. These smaller systems are typically in rural areas where it is not feasible to hook up to a city or water district.

Requirements for construction, operation, monitoring, etc., vary among systems based on their type, population and source of water. Water testing at systems that are not public water systems (for example, homes served by private wells) is facilitated by local and county health agencies and the Missouri Department of Health and Senior Services, rather than the Missouri Department of Natural Resources.

The Missouri Public Water System Universe

In 2017, there were 2731 active public water systems in Missouri. Of this total, 1424 were community, 218 were nontransient noncommunity, and 1,089 were transient noncommunity systems.

The community water systems in Missouri served more than 5 million citizens in 2017. By far the largest source of drinking water for Missourians is surface water from the Missouri River. The abundant supply of water in the Missouri River and its proximity to the state's major



population centers make the river a valuable resource to the communities that draw from it. Groundwater is the next most common source of drinking water for community water supplies. Generally, in southern Missouri, high-quality groundwater is easy to obtain and typically requires very little treatment to be used for drinking water. Approximately 37 percent of Missourians are served by a public system utilizing groundwater.

The remaining Missourians served by public water systems receive their water from other surface water sources. Particularly prevalent in the Northern part of Missouri, these include rivers and reservoirs that provide raw water to the water systems.

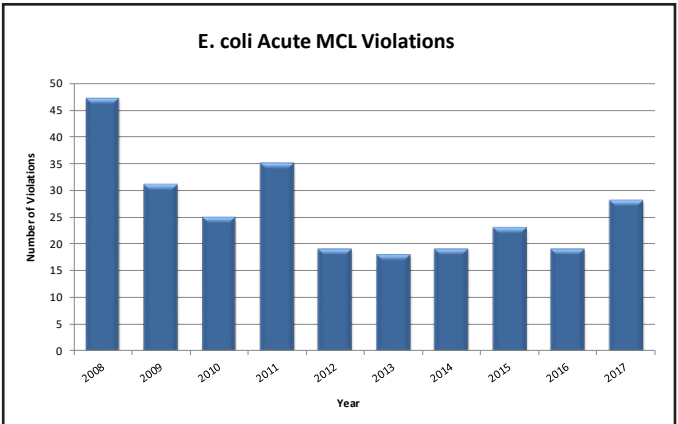
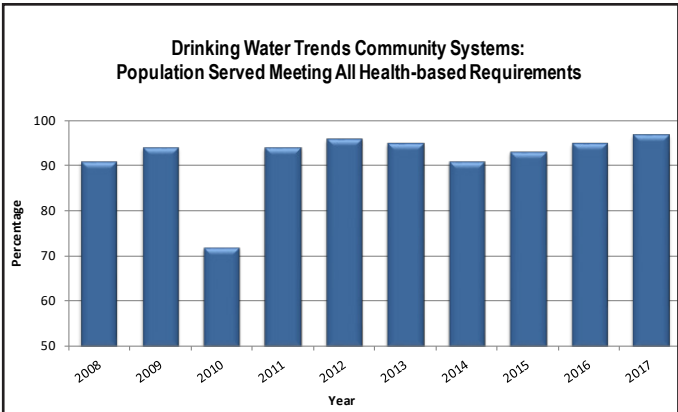
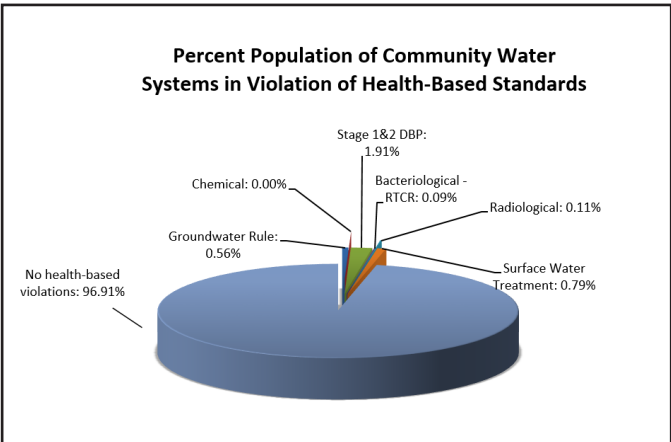
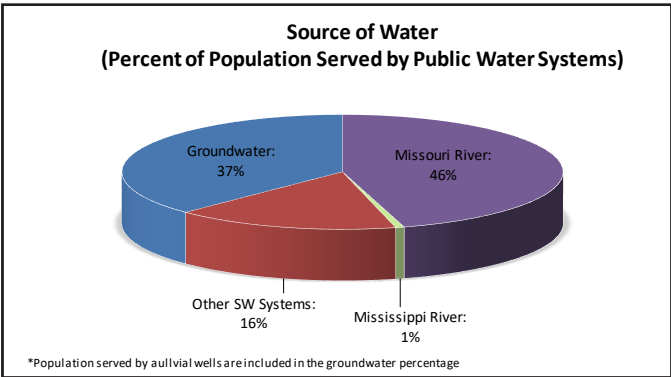
Analysis of Compliance

Missouri requires testing for 91 different regulated chemicals and microbiological contaminants on a regular schedule. However, many public water systems perform testing beyond what is required by the state. The Summary of Violations table in this report counts individual violations by contaminant type. It is important to note that some systems may have multiple violations for the same contaminants, depending on the monitoring schedule for that particular contaminant.

Appendices A through C list specific systems by county that have had violations of different drinking water rules. These rules include the Revised Total Coliform Rule, Radionuclide Rule, Stage 2 Disinfectants and Disinfection Byproduct Rule, and the Surface Water Treatment Rule.

Maximum Contaminant Level (MCL) and treatment technique violations represent the most significant impact on public health. In 2017, 96.9 percent of public water supply customers had water that met all MCL and treatment technique requirements. EPA and the states have worked together to develop an additional compliance measure called “person-months,” which represents the population served by community water systems providing water that meets health-based standards on a monthly basis. This measure is intended to take into account situations where violations are of short duration. Missouri achieved 96.51 percent compliance with this measure in 2017. The national target for federal fiscal year 2017 was 95 percent.

Many of the MCL and treatment technique violations reference chronic contaminants, which are based on continuous long-term exposure to cause health effects. Other MCLs are based on acute, or short-term health effects. In 2017, 26 public water systems, equal to 0.95 percent had acute violations for *E. coli*. While these acute violations can be serious, they are rare.



How to Find More Information on Your Water System

Consumer Confidence Reports provide detailed information for individual community water systems. Community water systems must distribute the report annually to water customers detailing specific information about their water system. This includes information about the sources and the levels of contaminants in the drinking water. Usually, these contaminants pose no health threat or are below the MCL and are not violations. The report must list violations of state and federal requirements for the calendar year. The Department prepares a draft Consumer Confidence Report for water systems to review and use and posts this on its server at dnr.mo.gov/ccr/index.html along with additional information about the reports. The Department also hosts the final version of each water system's report and provides a unique URL web address for customers to access the report for each system. As a result of these efforts, Consumer Confidence Report compliance rates increased over the previous years. In 2017, 99.1 percent of Missouri's community water systems distributed their Consumer Confidence Reports properly. Anyone can request a copy of a Consumer Confidence Report from their public water system or by calling the Department's Public Drinking Water Branch at 800-361-4827 or 573-751-5331.

In addition to Consumer Confidence Reports, the Department also maintains the Drinking Water Watch website, located at dnr.mo.gov/DWW/. From this website, additional information on all of Missouri's public drinking water systems can be obtained, including information on inventories, sample results, compliance activities, and water quality.

For More Information

Information about Missouri's public water systems can be obtained by writing to the Missouri Department of Natural Resources, Water Protection Program, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102-0176 or calling 800-361-4827 or 573-751-5331.

Information is also available on the Department's website at dnr.mo.gov/env/wpp/dw-index.html.



Summary of Violations Table

The following definitions apply to the Summary of Violations table.

Filtered Systems: Water systems that have installed filtration treatment [10 CSR 60-4.050].

Inorganic Contaminants: Non-carbon-based compounds such as metals, fluoride and nitrates. These contaminants are naturally-occurring in some water, but can get into water through human activities [10 CSR 60-4.030]

Lead and Copper Rule: Lead and copper corrosion poses various health risks when ingested at any level, and can enter drinking water from household pipes and plumbing fixtures [10 CSR 60, Chapter 15]. Violations are reported for: failure to monitor; failure to install optimal corrosion control treatment or a source water treatment system that would reduce lead and copper levels in water at the tap; failure to replace lead service lines on the schedule required by the regulation; and failure to provide required public education about reducing or avoiding lead intake from drinking water.

Organic Contaminants: Carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally get into water through runoff from cropland or discharge from factories [10CSR 60-4.040 and 4.100].

Radionuclides: Radioactive particles can occur naturally in water or result from human activity. Safe drinking water regulations set MCLs on five types of radionuclides: radium-226, radium-228, uranium, gross alpha and beta particle/photon radioactivity [10 CSR 60-4.060].

Surface Water Treatment Rule: This includes a series of rules promulgated from 1989-2009 that establish criteria under which water systems supplied by surface water sources, or groundwater sources under the direct influence of surface water, must filter and disinfect their water (Surface Water Treatment Rule, Interim Enhanced Surface Water Treatment Rule, Long Term 1 Enhanced Surface Water Treatment Rule, Long Term 2 Enhanced Surface Water Treatment Rule) [10 CSR 60-4.050 and 60-4.052].

Violations of the surface water treatment rules are reported for the following categories:

- **Monitoring, routine/repeat (for filtered systems):** Failure to carry out required tests or to report the results of those tests. A major monitoring violation for the surface water treatment rule occurs when at least 90 percent of the required samples are not taken or results are not reported during the compliance period.
- **Treatment techniques (for filtered systems):** Failure to properly treat the water.
- **Revised Total Coliform Rule:** This rule establishes regulations for microbiological contaminants in drinking water. These contaminants have the potential to cause acute health problems. If no samples are collected during the one-month compliance period, a major monitoring violation occurs. Violations of this rule are reported for the following:
 1. **Acute MCL violation:** A violation where the system found *E. coli*, potentially harmful bacteria, in its water.
 2. **Treatment Technique violation:** If a water system has a positive bacteriological sample, they may be required to complete a Level 1 or Level 2 Assessment to determine the cause of the result. If they do not complete the assessment, or do not respond to or correct the findings in the assessment, a treatment technique violation may be assigned.
 3. **Major routine and follow-up monitoring:** A violation where a system did not perform any monitoring.

Maximum Contaminant Level: The highest amount of a contaminant allowed in drinking water. MCLs ensure drinking water does not pose a health risk and are defined in milligrams per liter (parts per million) unless otherwise specified.

Monitoring: The Department specifies which water testing methods the water systems must use and sets schedules for the frequency of testing. A water system that does not follow the Department's schedule or

methodology is in violation [10 CSR 60-4.010]. States must report monitoring violations that are significant as determined by the EPA Administrator, in consultation with the Department. For purposes of this report, significant monitoring violations are major violations and they occur when no samples are taken or no results are reported during a compliance period.

Ground Water Rule: Applies to public water systems that serve groundwater. It ensures monitoring of groundwater sources for E. coli contamination, and relies on four strategies to address this risk: periodic sanitary surveys, triggered source water monitoring in the case of a positive sample, corrective action for a system found to have a significant deficiency or source water E. coli contamination, and compliance monitoring to ensure the treatment technology is reliable.

Treatment Techniques: A water disinfection process that EPA requires instead of a MCL for contaminants that laboratories cannot adequately measure. Failure to meet other operational and system requirements under the Surface Water Treatment and the Lead and Copper Rules have also been included in this category of violation for purposes of this report.

Violation: A failure to meet any state or federal drinking water regulation.



Organic Contaminants: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Technique		Significant	
	MCL (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Organic Contaminants				*			
1,1,1-Trichloroethane	0.2					0	0
1,1,2-Trichloroethane	0.005					0	0
1,1-Dichloroethylene	0.007					0	0
1,2,4-Trichlorobenzene	0.07					0	0
1,2-DBCP	0.0002						
1,2-Dichloroethane	0.005					0	0
1,2-Dichloropropane	0.005					0	0
2,3,7,8-TCDD (Dioxin)	3x10-8						
2,4,5-TP	0.05					0	0
2,4-D	0.07					0	0
Acrylamide							
Alachlor	0.002						
Aldicarb	0.003					0	0
Aldicarb Sulfone	0.002					0	0
Aldicarb Sufoxide	0.004					0	0
Atrazine	0.003					0	0
Benzene	0.005					0	0
Benzo[a]pyrene	0.0002						
BHC Gamma	0.0002					0	0
Carbofuran	0.04					0	0
Carbon tetrachloride	0.005					0	0
Chlorobenzene	0.1					0	0
Chlordane	0.002					0	0
cis-1,2-Dichloroethylene	0.07					0	0
Dalapon	0.2					0	0
Di(2-ethylhexyl)adipate	0.4						
Di(2-ethylhexyl)phthalate	0.006						
Dichloromethane	0.005					0	0
Dinoseb	0.007					0	0
Diquat	0.02						
Endothall	0.1						
Endrin	0.002					0	0
Epichlorohydrin							
Ethylbenzene	0.7					0	0
Ethylene dibromide	0.00005						
Glyphosate	0.7						
Heptachlor	0.0004					0	0

¹ Values are in milligrams per liter (mg/L), unless otherwise specified

*Shaded areas indicate a violation is not applicable in this category

Organic Contaminants: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Heptachlor epoxide	0.0002					0	0
Hexachlorobenzene	0.05						
Hexachlorobenzene	0.001					0	0
Hexachlorocyclopentadiene	0.05					0	0
Lasso	0.05					0	0
Lindane	0.0002						
Methoxychlor	0.04					0	0
Monochlorobenzene	0.1						
o-Dichlorobenzene	0.6					0	0
Oxamyl (Vydate)	0.2					0	0
Para-Dichlorobenzene	0.075					0	0
Pentachlorophenol	0.001					0	0
Picloram	0.5					0	0
Simazine	0.004					0	0
Styrene	0.1					0	0
Tetrachloroethylene	0.005					0	0
Toluene	1					0	0
Total PCB	0.0005						
Toxaphene	0.003						
Trans-1,2-Dichloroethylene	0.1					0	0
Trichloroethylene	0.005					0	0
Vinyl chloride	0.002					0	0
Xylenes (total)	10					0	0

Disinfection Byproducts Rule: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Techniques		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Total trihalomethanes	0.80	76	28			21	20
Haloacetic acids	0.60	5	2			21	20
Disinfection byproducts		81	28	0	0	21	20
Total Organic Compounds				1	1		
Insufficient or Non-certified Operator				0	0		

Inorganic Contaminants: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Inorganic Contaminants							
Antimony	0.006					0	0
Arsenic	0.010					0	0
Asbestos	7 million fibers/L						
Barium	2					0	0
Beryllium	0.004					0	0
Cadmium	0.005					0	0
Chromium	0.1					0	0
Cyanide (as free cyanide)	0.2					0	0
Fluoride	4.0	4	1			0	0
Mercury	0.002					0	0
Nitrate	10 (as nitrogen)					32	32
Nitrite	1 (as nitrogen)						
Selenium	0.05					0	0
Thallium	0.002					0	0
Total nitrate and nitrite	10 (as nitrogen)					0	0

Radiological Contaminants: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL (pCi/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Radiological Contaminants							
Gross Alpha	15pCi/L	11	4			5	5
Radium-226 and radium-228	5 pCi/L	20	6			5	5
Gross beta	4 mrem/yr						
Subtotal		31	6			5	5

Microbiological Contaminants: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL Presence/Absence	No. of Violations	No. of Systems with Violations	Number of Violations	No. of Systems with Violations	Number of Violations	No. of Systems with Violations
Revised Total Coliform Rule							
Acute MCL violation	Presence	28	26				
Level1 Assessment Violation				25	25		
Level 2 Assessment Violation				1	1		
Treatment Technique, Other				2	2		
Major Routine						504	310
Reporting/Notification						1	1
Subtotal		28	26	28	28	505	311

Some systems may have violations in multiple categories

Surface Water Treatment Rule: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	Number of Violations	No. of Systems with Violation
Surface Water Treatment							
Filtered systems							
Monitoring, routine/repeat						16	3
Treatment techniques				41	9		
Unfiltered systems							
Monitoring, routine/repeat							
Failure to filter							
Subtotal				41	9	16	3

Lead and Copper Rule: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Lead and Copper Rule							
Initial lead and copper tap monitoring and reporting						1	1
Follow-up or routine lead and copper tap monitoring and reporting						10	10
Treatment installation							
Public education						9	9
Subtotal						20	20

Public Notification: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Techniques		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Public Notification						342	206
Consumer Confidence Reports ¹						12	12
Subtotal						354	214

¹ 1 Violations for failure to produce and distribute the 2016 Consumer Confidence Report in 2017

Groundwater Rule: Jan. 1, 2017 - Dec. 31, 2017

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Groundwater Rule							
Failure to treat				5	5		
Failure to address contamination				3	3		
Failure to address deficiency				14	14		
Public Notice						0	0
Sanitary Survey						22	22
Major routine and follow up monitoring						78	37
Subtotal				22	22	100	59

Appendix A: Health Based Compliance

I. Revised Total Coliform Rule – Acute MCL Violations

The following systems were under boil water orders due to acute MCL violations for E. coli bacteria for the months listed.

County	ID#	System Name	Month(s)	Issue	Rescind
BENTON	MO3048043	DOUBLE M MOBILE COACH RANCH	August	8/24/2017	12/20/2017
BENTON	MO1041483	OUR SLICE OF PARADISE	August	8/24/2017	9/19/2017
BUTLER	MO4024071	BUTLER COUNTY PWSD 2	October	10/25/2017	11/9/2017
CALLAWAY	MO3048994	NEW CHRISTIAN LIFE FELLOWSHIP	September	9/30/2017	11/22/2017
CAMDEN	MO5252708	BLUE CAT POINT	August	8/28/2017	9/2/2017
CAMDEN	MO5031413	LOCH HAVEN	October	10/19/2017	11/3/2017
CAMDEN	MO3212445	POPEYZ PIER 31	August	8/9/2017	3/15/2018
GREENE	MO5048145	SILVER BELL MHP	June	6/9/2017	10/30/2017
HICKORY	MO5031456	LINDLEY COVE WELL ASSOCIATION	May	5/3/2017	2/1/2018
JASPER	MO5242916	BIG RED BARN RV PARK	May	5/25/2017	11/2/2017
JEFFERSON	MO6292410	CEDAR HILL #508	June	7/13/2017	7/14/2018
JEFFERSON	MO6048094	PARADISE ESTATES MHP	June	6/25/2017	7/13/2017
MORGAN	MO5031436	10 4 WATER SYSTEM	June	6/13/2017	6/21/2017
MORGAN	MO5031436	10 4 WATER SYSTEM	August	6/13/2017	8/23/2017
MORGAN	MO5243207	KENROW ACRES	April	4/27/2017	10/3/2017
MORGAN	MO5283214	KREATIVE KIDDOS PRESCHOOL & DAYCARE	June	7/3/2017	8/7/2017
MORGAN	MO3218211	TS FISH TALES BAR & GRILL	April	4/26/2017	5/5/2017
PULASKI	MO4031631	RIDGE CREEK WATER COMPANY LLC	November	11/9/2017	12/18/2017
ST LOUIS	MO6202688	ABERDEEN GOLF CLUB	May	6/2/2017	6/12/2017
ST LOUIS	MO6200549	CRESCENT FARMS GOLF CLUB	May	5/27/2017	6/2/2017
STONE	MO5031420	BRIDGEPORT 1ST ADDITION	May	5/24/2017	6/7/2017
STONE	MO5258070	STARRLITE VILLAGE 4TH ADDITION	April	4/27/2017	6/5/2017
STONE	MO5190998	WHISPERING WOODS	May	5/22/2017	6/9/2017
TANEY	MO5243160	BEAVER CREEK CANOE RENTAL CAMPGROUND	April	4/26/2017	6/19/2017
TANEY	MO5191015	DRIFTWATER RESORT LLC	May	5/12/2017	5/31/2017
TANEY	MO5031621	GREEN ACRES HOMEOWNERS	July	7/22/2017	4/20/2018
WEBSTER	MO5048281	FOUNTAIN PLAZA MHP	August	8/28/2017	8/28/2017

Appendix A - Health Based Compliance

II. Revised Total Coliform Rule - Level 1 and Level 2 Assessment

Since the transition to the Revised Total Coliform Rule April 1, 2016, the following systems have exceeded the coliform treatment technique trigger - triggering an assessment on more than one occasion in 2016. These assessments are triggered for the following reasons: systems collecting forty (40) or more samples per month exceeding 5.0% total-coliform positive samples for the month, systems collecting fewer than forty (40) samples per month having two (2) or more coliform-positive samples for the month, failing to collect every required repeat sample after any coliform-positive sample, or incurring an E coli MCL violation.

County	ID#	System Name	Assessments
BENTON	MO1041483	OUR SLICE OF PARADISE	2
BENTON	MO3010400	IONIA PWS	3
BENTON	MO3048043	DOUBLE M MOBILE COACH RANCH	2
BENTON	MO3142486	LOST VALLEY HATCHERY	2
BENTON	MO3171247	WARSAW R IX HIGH SCHOOL	2
BENTON	MO3210904	LAKE HILLS MOTEL	3
BENTON	MO3281109	AMERICAN LEGION POST 217	2
BOLLINGER	MO4283197	DOLLAR GENERAL #16317 BOLLINGER	2
CAMDEN	MO3031261	PONDEROSA SUBDIVISION	2
CAMDEN	MO3191552	WRENWOOD & ROBINWOOD CONDO	2
CAMDEN	MO3212445	POPEYZ PIER 31	2
CAMDEN	MO3212554	NEIGHBORS LANDING	2
CAMDEN	MO5252708	BLUE CAT POINT	2
CHRISTIAN	MO5010071	BILLINGS PWS	2
CHRISTIAN	MO5036027	LIBERTY UTILITIES BILYEU RIDGE	3
CHRISTIAN	MO5048394	SOUTH OAKS MHP	2

CHRISTIAN	MO5273217	BREAD OF LIFE SLAVIC CHURCH	2
DALLAS	MO5041253	MERITTS CAMPGROUND	2
DOUGLAS	MO5072789	CACTUS CANYON CAMPGROUND	2
FRANKLIN	MO6212311	WEDDING BELLS	2
FRANKLIN	MO6213200	SISTERS SALOON	2
GASCONADE	MO6293060	OLD DUTCH MILL	2
GREENE	MO5036187	CROSS ROADS ACRES	2
HICKORY	MO5283019	PRAIRIE CHAPEL UMC	2
JACKSON	MO1010589	OAK GROVE PWS	2
JASPER	MO5242916	BIG RED BARN RV PARK	2
JEFFERSON	MO6180934	RIVER CEMENT COMPANY	2
JEFFERSON	MO6213191	VILLA ANTONIO WINERY	2
JEFFERSON	MO6273211	HOUSE SPRINGS CHURCH OF CHRIST	2
LAWRENCE	MO5292360	STOP & SHOP	2
LINCOLN	MO6030021	CHAMPION FARMS SUBDIVISION	3
LINCOLN	MO6170733	ST ALPHONSUS SCHOOL	2
LINCOLN	MO6212332	JR DIAMONDS	2
MORGAN	MO5031436	10 4 WATER SYSTEM	2
MORGAN	MO5243207	KENROW ACRES	2
MORGAN	MO5283214	KREATIVE KIDDOS PRESCHOOL & DAYCARE	2
PETTIS	MO3190887	BUDGET INN	2
PHELPS	MO3024465	PHELPS COUNTY PWSD 1	2
PULASKI	MO4031631	RIDGE CREEK WATER COMPANY LLC	6
REYNOLDS	MO4240177	SHERWOOD FOREST CAMP	2
ST CLAIR	MO5291358	COUNTRYSIDE TRADING POST	2
ST FRANCOIS	MO4202962	ST FRANCOIS COUNTRY CLUB INC	2
STE	MO4036146	LAKE FOREST ESTATES	2
STONE	MO5031420	BRIDGEPORT 1ST ADDITION	2
STONE	MO5036017	HOLIDAY HILLS 1 2 3 ADDITION	3
STONE	MO5036090	VILLAGE OF CONEY ISLAND	2
STONE	MO5040355	ROCKY TOP MOBILE HOME COURT	2
STONE	MO5061373	LIVES UNDER CONSTRUCTION BOYS RANCH	2
WARREN	MO6010505	MARTHASVILLE PWS	4
WASHINGTON	MO6010659	POTOSI PWS	3
WAYNE	MO4242211	USACE CAMP LATONKA	2
WEBSTER	MO5010734	SEYMOUR PWS	2
WEBSTER	MO5183137	UNDERCOVER TRUCK BED COVERS	2
WRIGHT	MO5048231	SHADY OAK MHP	2

Appendix A: Health Based Compliance

III. Chemical MCL Violations

County	ID#	System Name	Chemical
BARTON	MO5010446	LAMAR PWS	TOTAL TRIHALOMETHANE (TTHM)
BOONE	MO2041563	BLUE ACRES MHP	TOTAL TRIHALOMETHANE (TTHM)
BUTLER	MO4010656	POPLAR BLUFF PWS	TOTAL TRIHALOMETHANE (TTHM)
CASS	MO1010024	ARCHIE PWS	TOTAL TRIHALOMETHANE (TTHM)
COOPER	MO3010075	BLACKWATER PWS	TOTAL TRIHALOMETHANE (TTHM)
COOPER	MO3010089	BOONVILLE PWS	TOTAL TRIHALOMETHANE (TTHM)
COOPER	MO3024170	COOPER COUNTY CONS PWSD #1	TOTAL TRIHALOMETHANE (TTHM)
DAVISS	MO1010179	COFFEY PWS	TOTAL TRIHALOMETHANE (TTHM)
DEKALB	MO1010510	MAYSVILLE PWS	TOTAL HALOACETIC ACIDS (HAA5)
DEKALB	MO1010510	MAYSVILLE PWS	TOTAL TRIHALOMETHANE (TTHM)
GENTRY	MO1024223	GENTRY COUNTY PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
HOWARD	MO2010271	FAYETTE PWS	TOTAL TRIHALOMETHANE (TTHM)
HOWARD	MO2010566	NEW FRANKLIN PWS	TOTAL TRIHALOMETHANE (TTHM)
HOWARD	MO2024259	HOWARD COUNTY CONS PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
LAFAYETTE	MO1010839	WAVERLY PWS	TOTAL TRIHALOMETHANE (TTHM)
LAFAYETTE	MO1024326	LAF JO SALINE CO CONS PWSD 2	TOTAL TRIHALOMETHANE (TTHM)
LEWIS	MO2010440	LAGRANGE PWS	TOTAL TRIHALOMETHANE (TTHM)
LINCOLN	MO6031217	TIMBER RIDGE ESTATES	FLUORIDE

MADISON	MO4010290	FREDERICKTOWN	TOTAL TRIHALOMETHANE (TTHM)
PETTIS	MO3021332	PETTIS JOHNSON SALINE PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
PIKE	MO2010479	LOUISIANA PWS	TOTAL HALOACETIC ACIDS (HAA5)
PIKE	MO2010479	LOUISIANA PWS	TOTAL TRIHALOMETHANE (TTHM)
RALLS	MO2024499	RALLS COUNTY PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2010029	ARROW ROCK PWS	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2010502	MARSHALL PWS	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2010520	MIAMI PWS	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2010559	NELSON PWS	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2010780	SWEET SPRINGS PWS	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2024555	SALINE COUNTY PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2024557	SALINE COUNTY PWSD 3	TOTAL TRIHALOMETHANE (TTHM)
WORTH	MO1010739	SHERIDAN PWS	TOTAL TRIHALOMETHANE (TTHM)

Appendix A: Health Based Compliance

IV. Radiological MCL Violations

County	ID#	System Name	Chemical
LINCOLN	MO6010902	SILEX PWS	COMBINED RADIUM (-226 & -228)
LINCOLN	MO6030021	CHAMPION FARMS SUBDIVISION	GROSS ALPHA, EXCL. RADON & U
LINCOLN	MO6030021	CHAMPION FARMS SUBDIVISION	COMBINED RADIUM (-226 & -228)
MCDONALD	MO5010449	LANAGAN PWS	GROSS ALPHA, EXCL. RADON & U
MCDONALD	MO5010449	LANAGAN PWS	COMBINED RADIUM (-226 & -228)
OZARK	MO5024444	OZARK COUNTY PWSD 1	GROSS ALPHA, EXCL. RADON & U
OZARK	MO5024444	OZARK COUNTY PWSD 1	COMBINED RADIUM (-226 & -228)
ST FRANCOIS	MO4010087	BONNE TERRE PWS	COMBINED RADIUM (-226 & -228)
ST FRANCOIS	MO4010456	LEADWOOD PWS	GROSS ALPHA, EXCL. RADON & U
ST FRANCOIS	MO4010456	LEADWOOD PWS	COMBINED RADIUM (-226 & -228)

Appendix A: Health Based Compliance

V. Surface Water Violations

The following systems violated the Surface Water Rule, Treatment Technique for Turbidity or other surface water requirements in the months or annual period indicated.

County	ID#	System Name	Period	Violation
BUTLER	MO4010656	POPLAR BLUFF	January-March	Combined Filter Effluent Turbidity
CASS	MO1010301	GARDEN CITY	Aug-Sept, Nov-Dec	Combined Filter Effluent Turbidity
GENTRY	MO1070639	MID FORK WTR CO	June-December	Combined Filter Effluent Turbidity
LAFAYETTE	MO1010464	LEXINGTON	July, December	Combined Filter Effluent Turbidity
MADISON	MO4010290	FREDERICKTOWN	January-August	Combined Filter Effluent Turbidity
MONROE	MO2010538	MONROE CITY	December	Combined Filter Effluent Turbidity

APPENDIX B

Chronic Major Monitoring Violations

The following systems had three or more major monitoring violations of the Revised Total Coliform Rule in 2017.

County	System Name	PWS ID #	Months
BARRY	FOX FITNESS 24	MO5203145	January, February, April, June, July, August
BENTON	CLEAR CREEK RV PARK	MO1242804	January-December
BENTON	HEAD WATERS MOTEL	MO3190902	March, June, August
BENTON	HEITS PT LUTH CAMP SYS 1	MO3242078	April, July, October, December
BENTON	HIDDEN VALLEY MHP	MO3262156	January-November
BUTLER	STOP & GO	MO4292680	February, July, October
CAMDEN	KELLYS PORT MARINA	MO5233202	February, March, July
CAMDEN	RED FOX BAR & GRILL	MO3212446	May, September, December
CHRISTIAN	BREAD OF LIFE SLAVIC CHURCH	MO5273217	April, May, June, July
GREENE	CROSSROADS EAGLE STOP	MO5258164	February, June, July
GREENE	VIRGILS BAR & SELF STORAGE	MO5212683	January, February, July
JEFFERSON	A&H COUNTRY ESTATES	MO6048200	January, February, March
LAWRENCE	DONS CROSSROADS	MO5211348	Feb, May-June, Aug-Sept, Nov-Dec
LINCOLN	LAKE FOREST SUBDIVISION	MO6031418	June-October
LINCOLN	SUNRISE RV PARK LLC	MO6243174	June, September, October
MILLER	C SITE BAR & GRILL	MO5212698	July, August, December
MILLER	CALVARY CHAPEL LK OZARKS	MO5273082	January-March, May, July, October, December
MORGAN	THE VILLAS OF HARBOUR HILLS	MO5031482	February, July, August, November
PERRY	RHODES 101 CONVENIENCE STORE	MO4211072	September, November, December
PETTIS	CAMP BRANCH BAPTIST CHURCH	MO1272873	April, June, September, November
PETTIS	CRESTVIEW MHP	MO3048254	February, April-May, July-October
POLK	PLANTATION ESTATES	MO5030019	January-February, April-September
PULASKI	RIDGE CREEK WATER CO LLC	MO4031631	January-May
PULASKI	WINDSOR APARTMENTS	MO3302411	February, March, April, November
REYNOLDS	CENTERVILLE QUICK STOP LLC	MO4293001	March, October, November, December
ST CLAIR	COUNTRYSIDE TRADING POST	MO5291358	May, July, September
ST FRANCOIS	ROY'S #7	MO4292751	March, May, November, December
ST FRANCOIS	TERRACE OF FRENCH VILLAGE	MO4283101	June, July, August, September
STONE	FIN & FEATHER RESORT PROPERTY HOA	MO5190943	May, June, September
TANEY	SCOTTYS HITCH N POST	MO5211978	February, June, July
TEXAS	GARDENS INN	MO4211081	July, August, November, December
WASHINGTON	BRANCH RANCH BAR AND GRILL	MO4213222	September, October, November
WEBSTER	DIGGINS APOSTOLIC CHURCH	MO5272948	April, October, December
WEBSTER	EAGLE STOP	MO5258117	February, April, May

MISSOURI



NATURAL RESOURCES

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Nothing in this document may be used to implement any enforcement action or levy any penalty unless promulgated by rule under chapter 536 or authorized by statute.

Division of Environmental Quality Director: Ed Galbraith

PUB2742